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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/059,364	01/31/2002	Matthew B. Hoyt	1005-189	8962
23117	7590 01/30/2004		EXAMINER	
NIXON & VANDERHYE, PC			JUSKA, CHERYL ANN	
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ARLINGTON, VA 22201-4714			1771	

DATE MAILED: 01/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

and the state of t	Application No.	Applicant(s)				
***	10/059,364	HOYT ET AL.				
Office Action Summary	Examiner	Art Unit				
	Cheryl Juska	1771				
The MAILING DATE of this communication appeariod for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a reply be tin ly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a. cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 04 N	Responsive to communication(s) filed on <u>04 November 2003</u> .					
2a)⊠ This action is FINAL . 2b)□ This	action is non-final.					
Disposition of Claims						
 4) Claim(s) 20,21,23 and 25-27 is/are pending in 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 20,21,23 and 25-27 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o 	wn from consideration.	* .				
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to by the l drawing(s) be held in abeyance. Sec tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. §§ 119 and 120						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea * See the attached detailed Office action for a list 13) Acknowledgment is made of a claim for domest since a specific reference was included in the first 37 CFR 1.78. a) The translation of the foreign language processing the process of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for domest reference was included in the first sentence of the priority document is made of a claim for document	ts have been received. Its have been received in Applicationity documents have been received in (PCT Rule 17.2(a)). It of the certified copies not received in priority under 35 U.S.C. § 119(arst sentence of the specification of covisional application has been received in priority under 35 U.S.C. §§ 120	ion No ed in this National Stage ed. e) (to a provisional application) r in an Application Data Sheet. ceived. and/or 121 since a specific				
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)				

DETAILED ACTION

Response to Amendment

- 1. The amendment filed November 4, 2003, has been entered. Claims 20, 21, 23, 25, and 27 have been amended, while claims 1-19, 22, 24, and 28 are cancelled. Thus, the pending claims are 20, 21, 23, and 25-27.
- 2. Claim 20 has been amended to incorporate the limitations of cancelled claims 22 and 24. Said amendment is sufficient to overcome the 102 rejections set forth in section 2-5 of the last Office Action. Additionally, said amendment is sufficient to withdraw the 102/103 rejection set forth in section 7 of the last Office Action.

Claim Rejections - 35 USC § 103

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 20 and 27 are rejected under 35 USC 103(a) as being unpatentable over US 4,069,363 issued to Segraves in view of US 5,447,794 issued to Lin.

Claims 23, 25, and 26 stand rejected under 35 USC 103(a) as being unpatentable over US 4,069,363 issued to Segraves in view of US 5,447,794 issued to Lin, as set forth in section 8 of the last Office Action.

Claims 20 and 27 were previously rejected under 102 as being anticipated by Segraves, while claims 22-26 were rejected under 103 over Segraves in view of Lin. Since claim 20 has been amended to incorporate the limitations of claims 22 and 24, the rejection of claims 20 and

Application/Control Number: 10/059,364 Page 3

Art Unit: 1771

27 has been changed from a 102 to a 103, for reasons analogous to those presented in the last Office Action.

- 5. Claim 21 stands rejected under 35 USC 103(a) as being unpatentable over the cited Segraves patent in view of US 4,075,378 issued to Anton or US 5,468,555 issued to Lijten, as set forth in section 10 of the last Office Action.
- 6. Claims 20, 21, and 27 are rejected under 35 USC 103(a) as being unpatentable over US 4,075,378 issued to Anton et al. in view of US 5,447,794 issued to Lin.

Claims 23, 25, and 27 stand rejected under 35 USC 103(a) as being unpatentable over US 4,075,378 issued to Anton et al. in view of US 5,447,794 issued to Lin, as set forth in section 8 of the last Office Action.

Claims 20, 21, and 27 were previously rejected under 102 as being anticipated by Anton, while claims 22-26 were rejected under 103 over Anton in view of Lin. Since claim 20 has been amended to incorporate the limitations of claims 22 and 24, the rejection of claims 20, 21, and 27 has been changed from a 102 to a 103, for reasons analogous to those presented in the last Office Action.

- 7. Claims 20, 23, and 25-27 stand rejected under 35 USC 103(a) as being unpatentable over US 5,447,794 issued to Lin in view of US 5,340,886 issued to Hoyt, and in further view of Segraves, as set forth in section 9 of the last Office Action.
- 8. Claim 21 stands rejected under 35 USC 103(a) as being unpatentable over the cited Lin, Hoyt, and Segraves references and in further view of the cited Anton patent or US 5,468,555 issued to Lijten, as set forth in section 10 of the last Office Action.

9. Applicant's arguments filed November 4, 2003, have been fully considered but they are not persuasive.

- 10. Applicant traverses the above Segraves rejections by asserting that the reference is not concerned with providing an anti-staining sheath/core filament, but rather an asymmetrical sheath/core filament with improved crimpability (Amendment, paragraph spanning pages 5-6). This argument is unconvincing since Segraves explicitly recognizes the differential dyeability of the sheath/core filaments (col. 4, lines 16-24). Additionally, applicant asserts that Segraves' teaching of the sheath being "lighter" in color cannot be suggestive of an essentially undyed sheath, as is presently claimed (Amendment, page 6, lines 6-8). In response, it is first noted that the claim recites "substantially undyed by the acid dye." (Emphasis added.) Secondly, it is noted that Segraves teaching of a "lighter" sheath is with respect to disperse dyes. When discussing acid dyes, Segraves states that the core nylon "accepts acid dyes very readily" and when immersed in a solution of dark acid dye, "only the more readily dyeable core becomes dyed" (col. 5, lines 35-38). Thus, Segraves teaches the sheath is "substantially undyed."
- Applicant also argues that the combination of Lin and Segraves is not suggestive of the claimed method (Amendment, page 6, 2nd paragraph). However, this argument is unpersuasive since Lin is only relied upon to teach the claimed sheath/core weight ratio, which is lacking in Segraves. It is reiterated the amine end group concentrations as claimed are met by, or obvious over, the Segraves reference. Specifically, Segraves teaches the core is easily dyeable with acid dyes, which means that amine end groups are available as dyesites (i.e., a high AEG concentration), while the sheath is substantially undyed (i.e., a low AEG concentration). If the

Application/Control Number: 10/059,364

Art Unit: 1771

Segraves polyamide does not already possess the claimed AEG concentrations, it would have been obvious to one skilled in the art to modify said concentrations in order to further enhance the differential dyeability of the bicomponent fiber. Therefore, applicant's arguments are insufficient to overcome the rejections based upon Segraves in view of Lin.

- 12. With respect to the Lin in view of Hoyt rejection, applicant argues that Lin's silence with respect to the AEG concentration of the sheath nylon would not lead one to search for another sheath polymer (Amendment, page 6, 3rd paragraph). The examiner respectfully disagrees that Lin's silence on the sheath AEG concentration is a teaching of its insignificance. Specifically, Lin's whole objective to is produce a stain resistant sheath/core nylon filament. Thus, one skilled in the art would be motivated to improve on the stain resistance of Lin's fiber by employing a low AEG concentration for the sheath nylon.
- 13. With respect to applicant's argument that the combination of Lin and Hoyt is unobvious because Hoyt employs "a *sulphonated* nylon" (Amendment, page 6, 3rd paragraph), it is asserted that this argument is unpersuasive since the present claims do not exclude the presence of sulphonated nylons. Therefore, the rejection based upon Lin in view of Hoyt is hereby maintained.
- 14. With respect to the Anton reference, applicant asserts said reference teaches away from the claimed invention since the range of AEG concentration for the sheath nylon is greater than the presently claimed range (Amendment, page 7, 1st paragraph). This argument is unpersuasive since said AEG concentration is recognized as a result effective variable. Decreasing the AEG concentration reduces the number of available dyesites, resulting a lightly colored or undyed,

Application/Control Number: 10/059,364

Art Unit: 1771

stain-resistant nylon, while increasing the AEG concentration results in deeply colored dyed or stainable nylon. Thus, applicant's arguments are found unconvincing.

Conclusion

15. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

16. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Cheryl Juska whose telephone number is 571-272-1477. The Examiner can normally be reached on Monday-Friday 10am-6pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Terrel Morris can be reached on 571-272-1478. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 1771

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-0994.

CHERYU A. JUSKA